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## CLAIMS

1. ~~System for charging the use of a packet based telecommunication network such as an ATM or IP network, characterised by a measuring device (2) for measuring the number (n) of data unitpackets received and/or transmitted data unitpackets during a set period of time (T), shorter than the time during which said telecommunication connection is opened.~~
21. System for charging, in a packet based telecommunication network such as an ATM or IP network, the packet load per connection, use of a
- 10 ~~packet based telecommunication network such as an ATM or IP network,~~ characterised by a measuring device (2) for measuring the time period (t) between a set number (N) of received or transmitted data unitpackets belonging to the same connection.
32. System according to claim 1 or 2, characterised by a calculation device (4) for calculating the number of data unitpackets per said
- 15 ~~period of time (T+t) and supplying that calculation result (-r-) to a billing system (5).~~
43. System according to claim 32, in which the telecommunication network comprises system data unitpackets (RM, RESV) which comprise an
- 20 ~~indication (r1) of the capacity or priority requested by the user,~~ characterised by a detection device (2) for reading out said indication out of the system data unitpackets and transferring that indication to the billing system.
54. System according to claim 32, in which the telecommunication system comprises system data unitpackets (RM, RESV) which comprise an
- 25 ~~indication (r2) of the capacity or priority assigned by the telecommunication system, characterised by a detection device (2') for reading out said indication out of the system data unitpackets and transferring that indication to the billing system.~~
65. System according to claim 32, characterised by an aggregation device (6) for aggregating the calculation result (r) ~~on~~ and passing
- 30 ~~on the aggregated result (ra) to the billing system.~~
76. System according to claim 43 or 54, characterised by an aggregation device (6) for aggregating said capacity or priority
- 35 ~~indications (r1, r2) and passing on the aggregated indications (r1a, r2a) to the billing system.~~

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